

Abstract of the Disclosure

A document sorting device comprises a popularity degree calculation unit and a popularity degree transition calculation unit. The popularity degree calculation unit calculates a popularity degree indicating the height of the popularity of each document, based on a link relation between documents in a network that are collected during the first time period. The popularity degree transition calculation unit calculates a popularity transition degree indicating both a direction and a degree of transition of the popularity degree, based on the popularity degree calculated by the popularity degree calculation unit during the second time period. In this way, a problem that the popularity degree always increases and never decreases can be solved and, simultaneously, information indicating how the popularity of a document changes as time elapses can be obtained.